

MH-5092

Jc978 U.S. PTO  
10/07/5330  
02/14/02



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Inventor(s): Horng, et al.

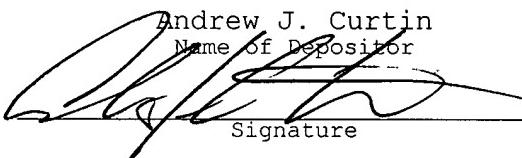
Title: **Signal Circulation for Adaptive Signal Equalization  
in Digital Communication Systems**

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I hereby certify that this correspondence is being deposited with the United States Postal Service as EXPRESS MAIL in an envelope addressed to: The Assistant Commissioner for Patents, Washington, D.C. 20231, on:

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Signature

\* \* \*

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents  
Washington, DC 20231

Pursuant to 37 C.F.R. §1.56(a), Applicant hereby cites the following documents (copies enclosed) listed on the attached copy of Form PTO-1449.

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This Information Disclosure Statement is filed in accordance with the paragraph of 37 CFR §1.97 checked below:

X 1.97(b) This Information Disclosure Statement is filed:

- (1) Within three months of the filing date of a national application; OR
- (2) Within three months of the date of entry of the national stage of an international application; OR
- (3) Before the mailing of a first Office Action on the merits.

No fee or certification is required.

  1.97(c) This Information Disclosure Statement is filed after the period specified in paragraph (b) above, but before the mailing date of either:

- (1) A Final Action under 37 CFR 1.113; OR
- (2) A Notice of Allowance under 37 CFR 1.311;

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AND is accompanied by either:

(check one)

the Certification under 37 CFR  
1.97(e) as set out below; OR

the fee of \$240.00 under 37 CFR  
1.17(p).

1.97(d) This Information Disclosure Statement is filed  
after the mailing date of either:

(1) a Final action under 37 CFR 1.113; OR

(2) A Notice of Allowance under 37 CFR 1.311;

BUT before payment of the Issue Fee, AND is accompanied  
by:

(1) the Certification under 37 CFR 1.97(e) as  
set out below; AND

(2) Petition is hereby made under 37 CFR  
1.97(d) for consideration of this  
Information Disclosure Statement; AND,

(3) Authorization to charge the petition fee  
of \$130.00 as set out in 37 CFR 1.17(i).

If this Information Disclosure Statement is being filed  
under 37 CFR 1.97(c) or 1.97(d), the undersigned Attorney hereby  
certifies that:

- each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing date of this Statement;
- or
- no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, or to the knowledge of the undersigned Attorney after making reasonable enquiry, was known to any individual designated in 37 CFR 1.56(c) more than three months prior to the filing date of this Statement.

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Authorization is hereby given to charge the indicated fee(s) to Deposit Account No. 50-0749.

Please charge any additional fee due for this paper to Deposit Account No. 50-0749.

Respectfully submitted,

MITSUBISHI ELECTRIC RESEARCH LABORATORIES

By:



Andrew J. Curtin  
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Enclosures

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Form PTO-1449 (modified 2/91)	U.S. DEPT OF COMMERCE Patent and Trademark Office	Attorney Docket Number: MH-5092	Serial Number:
<b>INFORMATION DISCLOSURE CITATION</b>			
(Use several sheets if necessary)			
		Applicant: Horng, et al.	
		Filing date: Herewith	Group art area:

JCS 10/07 5:30 PRO  
02/14/02

**U.S. PATENT DOCUMENTS**

Examiner Initial	Patent number	Date	Name	Class	Subclass	Filing date if appropriate

**FOREIGN PATENT DOCUMENTS**

	Document number	Date	Country	Class	Subclass	Translation	
						YES	NO

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

S. Chern, J. Horng, and K.M. Wong, "The Performance of the Hybrid LMS Adaptive Algorithm," <i>Signal Processing</i> , Vol.44, No.1, pp. 67-88, June 1995.	

Examiner:	Date Considered:
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP .609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.	